

10/31/03

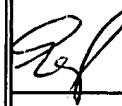
Sheet 1 of 4

Form PTO-1449 LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. PC3-059		PRIORITY SERIAL NO. 09/966,158		
				APPLICANT Yuichi Iitubo, et al.				
				PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621		
U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name		Class	Subclass	Filing Date If Appropriate
	AA	2,494,064	01/50	Simons, et al.				
	AB	2,005,706	06/35	H.W. Daudt, et al.				
	AC	2,005,707	06/35	H.W. Daudt, et al.				
	AD	2,576,823	11/51	A.F. Benning, et al.				
	AE	2,697,124	12/54	R.M. Mantell, et al.				
	AF	2,900,423	08/59	L.B. Smith, et al.				
	AG	2,942,036	06/60	L.B. Smith, et al.				
	AH	3,258,500	06/66	F.W. Swamer, et al.				
	AI	3,436,430	04/69	L.E. Hall, et al.				
	AJ	3,636,173	01/72	L.E. Gardner				
	AK	3,803,241	04/74	I. Stolkin, et al.				
	AL	4,158,023	06/79	von Halasz				
	AM	5,043,491	08/91	Webster, et al.				
	AN	5,057,634	10/91	Webster, et al.				
	AO	5,068,472	11/91	Webster, et al.				
	AP	5,068,473	11/91	Kellner, et al.				
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country		Class	Subclass	Translation
								Yes No
	AQ	1,162,511	05/91	CA				
	AR	2,081,813	10/92	CA				
	AS	0 349 115 A1	01/90	EP				
	AT	0 434 407 A1	06/91	EP				
	AU	0 442 075 B1	08/93	EP				
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
	AV		Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," Modern Synthetic Reactions, 2 nd ed., The Benjamin/Cummings Publishing					
			Company (Menlo Park, CA), p. 1/2 (1991)					
EXAMINER				DATE CONSIDERED				
				12/10/06				
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								

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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,146,018	09/92	Kellner, et al.			
	AB	5,171,901	12/92	Gassen, et al.			
	AC	5,177,273	01/93	Bruhnke, et al.			
	AD	5,220,083	06/93	Webster, et al.			
	AE	5,268,343	12/93	Hopp, et al.			
	AF	5,364,992	11/94	Manogue, et al.			
	AG	5,430,204	07/95	Manogue, et al.			
	AH	5,446,219	08/95	Manogue, et al.			
	AI	5,621,151	04/97	Manogue			
	AJ	5,621,152	04/97	Jansen, et al.			
	AK	5,723,699	03/98	Miller, et al.			
	AL	5,902,911	05/99	Rao, et al.			
	AM	5,919,994	07/99	Rao			
	AN	6,018,083	01/00	Manogue, et al.			
	AO	6,156,944	12/00	Pham, et al.			
	AP	6,211,135	04/01	Müller, et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
	AQ	0 539 989 A1	05/93	E{			Yes
	AR	91/05752	05/91	WO			No
	AS	96/17813	06/96	WO			
	AT	98/50327	11/98	WO			
	AU	99/26907	06/99	WO			
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AV		Dmitrii D. Moldavskii, "Technology for the Preparation of Perfluoro-Organic Compounds," <i>Journal of Fluorine Chemistry</i> , Elsevier Science				
			S.A. (Netherlands), Vol. 94 (No. 2), p. 157-167. (February 5, 1999).				
EXAMINER		DATE CONSIDERED 12/10/06					
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U.S. PATENT DOCUMENTS								
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FOREIGN PATENT DOCUMENTS								
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		AB	99/62851	12/99	WO		Yes	No
		AC	428,361	09/30	UK			
		AD	428,445	05/35	UK			
		AE	468,447	08/37	UK			
		AF	790,335	02/58	UK			
		AG	1,077,932	08/67	UK			
		AH	1,359,023	07/74	UK			
		AI	1,578,933	11/80	UK			
		AJ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
J. Kvicala, et al., "Preparation of Perhalogenated Chlorofluoropropanes by Halogen Exchange in the Liquid and Vapour Phases and Their Isomer Analyses by 19F NMR Spectroscopy," <i>Journal of Fluorine Chemistry</i> , Elsevier Sequoia (Netherlands). p. 155-175, (February 5, 1989).	AK							
		AL						
F.J. Mettelle, et al., "Methods for the Introductions of Hydrogen Into Fluorinated Compounds," <i>Fluorine Chemistry Reviews</i> , 1 st ed., Vol. 1 (No. 2), p. 315-358, (February 5, 1967).								
Dr. Mark D. Cisneros, et al., "An Integrated Approach to Achieve Low Environmental Impact in the Special Hazards Fire Suppression Industry," Great Lakes Chemical Corporation (West Lafayette, Indiana), p. 1-8. (1989)								
Viacheslav A. Petrov, et al., "Isomerization of Halopolysluoroalkanes by the Action of Aluminum Chlorofluoride," <i>Journal of Fluorine Chemistry</i> , Elsevier Science S.A. (Netherlands). p. 123-130, (February 5, 1998).								
B.P. Aggarwal, et al., "Chlorination of Propane and Propylene and Pyrolysis of Perchloropropene," <i>Petroleum & Hydrocarbons</i> , Vol. 3 (No. 2), p. 69-72, (July 5, 1968).								
Albert L. Henne, et al., "Fluorinated Derivatives of Propane and Propylene," p. 496-497, (March 5, 1946).								
EXAMINER		DATE CONSIDERED						
12/10/06								
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT Yuichi Iikubo, et al.					
			PRIORITY FILING DATE 9/28/2001		PRIORITY GROUP 1621			
U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
	AK		Kirk-Othmer. "Encyclopedia of Chemical Technology," <i>Catalysis</i> , 3 rd ed., John Wiley & Sons (New York), p. 16-18. (1987)					
	AL		Milos Hudlicky, "Chemistry of Organic Fluorine Compounds, A Laboratory Manual with Comprehensive Literature Coverage, 2 nd ed., Ellis Horwood (New York), p. 170-179, (February 8, 1992).					
	AM							
	AN							
	AO							
	AP							
EXAMINER 			DATE CONSIDERED 12/10/06					
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WELLS ST JOHN PS

5098383424 P.04

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-059	SERIAL NO. 10/699,491		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo, et al.			
				FILING DATE 10/31/2003		GROUP Unknown	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>AM</i>	AA	6,281,395	8/18/2001	Nappa et al.			
<i>AM</i>	AB	6,376,727	4/22/2002	Ran et al.			
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FOREIGN PATENT DOCUMENTS							
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							Yes
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	AP						
	AO						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
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EXAMINER <i>AM</i>		DATE CONSIDERED <i>12/10/06</i>					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MP&P 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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5098383424 P.04

Sheet 1 of 1

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PCT-059	SERIAL NO. 10699491			
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Hidem, et al.				
				FILING DATE 10/21/2003	GROUP 1621			
U.S. PATENT DOCUMENTS								
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<i>JH</i>	AA	2,494,064	1/10/1950	Slavens et al.				
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
FOREIGN PATENT DOCUMENTS								
Initials		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>JH</i>	AM	W02,590	8/1/1962	UK				
<i>JH</i>	AN	EP D 539 499 B1	6/18/1997	EPO				
<i>JH</i>	AO	99/31353	10/14/1999	PCT				
	AP							
	AQ							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
<i>JH</i>	AR	①	"Technology of Fluoropolymers" Drobny: CRC Press; Vols. 7H-79; PMs. 8-11, and 1K-10.				(1991)	
	AS							
	AT							
EXAMINER <i>JH</i>			DATE CONSIDERED <i>12/10/03</i>					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPRP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC-059	SERIAL NO. 10649491	
LIST OF ART CITED BY APPLICANT* (Use several sheets if necessary)		APPLICANT Yairi Shabot et al.				
		FILING DATE October 31, 2003	GROUP 1631			
U.S. PATENT DOCUMENTS						
Examiner Initials	Document Number	Type	Name	Class	Subclass	
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AB						
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FOREIGN PATENT DOCUMENTS						
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AB						
AT						
EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>12/10/06</i>					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPPR 604. Draw line through citation if not in conformance and not considered. Include copy of this form with each communication to applicant.						

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-059	SERIAL NO. 10/699,491		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yuichi Iikubo et al.			
				FILING DATE October 31, 2003	GROUP 1621		
U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
<i>[Signature]</i>	AA	4,876,405	0/24/89	Gervasutti	570	156	
<i>[Signature]</i>	AB	5,523,501	06/04/96	Kellner et al.	570	176	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AK						
	AL						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<i>[Signature]</i>	AN	698,386	10/14/53	Great Britain			<input checked="" type="checkbox"/>
<i>[Signature]</i>	AN	PCT/US2004/023917	07/22/04	Int'l Search Report			
<i>[Signature]</i>	AO	PCT/US2004/023917	07/22/04	Written Opinion			
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AN						
	AS						
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Sheet 1 of 7

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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Kubo, et al			
				FILING DATE October 31, 2003	GROUP 1621		
U.S. PATENT DOCUMENTS							
*Examiner's initials		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>JK</i>	AA	1,132,636	03/1915	Taylor, et al			
	AB	1,926,395	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AC	2,413,898	01/1947	Downing, et al			
	AF	2,456,028	12/1948	Simons			
	AG	2,519,983	08/1950	Simons			
	AM	3,080,430	03/1963	Cohen			
	AN	3,479,286	11/1969	Gambaretto, et al			
	AJ	3,656,553	04/1972	Rainaldi, et al			
	AK	3,715,438	02/1973	Huggett			
	AL	3,822,207	07/1974	Howard, et al			
	AM	3,844,354	10/1974	Larsen			
	AN	4,014,799	03/1977	Owens			
	AO	4,225,404	09/1980	Dietrich, et al			
	AP	4,226,728	10/1980	Kung			
	AG	4,446,923	05/1984	Marlin			
	AR	4,459,213	04/1972	Uchida, et al			
	AS	4,536,298	08/1985	Kamei, et al.			
	AT	4,688,407	05/1987	Gerard, et al			
	AV	4,810,403	03/1989	Blevens, et al			
	AV	4,826,610	05/1989	Thacker			
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U.S. PATENT DOCUMENTS							
*Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	4,851,595	07/1989	Gumprecht			
	AB	4,876,405	10/1989	Gervasutti			
	AC	4,937,398	06/1990	Tung, et al			
	AD	4,945,118	07/1990	Smits, et al			
	AE	4,954,271	09/1990	Green			
	AF	5,040,608	08/1991	Dougherty, et al			
	AG	5,084,190	01/1992	Fernandez			
	AI	5,115,668	05/1992	Dougherty Jr., et al			
	AI	5,141,654	08/1992	Fernandez			
	AJ	5,523,501	06/1996	Kellner, et al.			
	AK	5,562,861	10/1996	Nimitz, et al.			
	AL	5,730,894	03/1998	Minor			
	AM	6,065,547	05/2000	Ellis, et al.			
	AN	6,291,729	09/2001	Rao			
	AO	6,346,203 B1	02/2002	Robin, et al.			
	AP	6,461,530	10/2002	Robin, et al.			
	AQ	6,478,979	11/2002	Rivers, et al.			
	AR	6,763,894	07/2004	Schoenrock			
	AS	6,849,184	02/2005	Robin, et al.			
	AT	5,416,246	05/1995	Krespan et al.			
EXAMINER 	DATE CONSIDERED <i>12/12/06</i>						
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		FILING DATE October 31, 2003		GROUP 1621		
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation Yes No
	AA CA 902590A	08/1962	Canada			
0	AB EP 0 039 471 A1	11/1981	Europe			
	AC EP 0 253 410	01/1998	EPO			
	AD EP 0 383 443 A2	08/1990	Europe			
	AE EP 0 434 409 A	08/1991	Europe			
	AF EP 0 481 618 A1	04/1992	Europe			
	AG EP 0 570 367 B1	01/1993	Europe			
	AH RU 2068718 C1	08/1990	Russia			
	AI 1,546,505	08/1970	Germany			
	AJ WO 91/02564	03/1991	WIPO			
	AK WO 91/04768	04/1991	PCT			
	AL WO 91/12853	09/1991	PCT			
	AM WO 93/24588	12/1993	PCT			
	AN WO 96/37043	08/1998	PCT			
	AO WO 98/40834	12/1996	PCT			
	AP WO 03/029173	04/2003	PCT			
	AB 698,386	10/1953	UK			
	AR GB 1,132,636	11/1968	UK			
	AS JP 51034595	09/1974	Japan			
AT	JP 57-93070-A	06/1982	Japan			
AU	Laid Open Hei 1-115999	05/1889	Japan			
AV						
EXAMINER	DATE CONSIDERED					12/10/06

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FOREIGN PATENT DOCUMENTS, CON'T.					
AA	Sho 50-50884 (Laid Open Sho 51-131100)	04/1975	Japan		
AB	Sho 48-19093	03/1973	Japan		
AC	Sho 52-25679	07/1977	Japan		
AD	Lai Open Hei 4- 98770	03/1992	Japan		
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		FILING DATE October 31, 2003	GROUP 1621	
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)				
AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207			
AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents", August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90			
AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. -11			
AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443			
AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methane and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676			
AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review			
AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogens Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. S76-4C2			
AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1955, <i>National Advisory Committee for Aeronautics, Technical Note 3565</i> , pp. 1-30			
AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)			
AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8			
AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups. Supplement D</i> , Chapter 14, pp. 803-855			
AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopedia" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol			
AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1988			
AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157			
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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. PC3-059	SERIAL NO. 10/699,491
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Yuichi Kubo, et al		
		FILING DATE October 31, 2003	GROUP 1621	
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Yuichi Kubo, et al		
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					PATENT AND TRADEMARK OFFICE		PC3-059		SERIAL NO.	
					LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Yuichi Iikubo, et al.		FILING DATE October 31, 2003	
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate			
<i>SP</i>	AA	4,885,409	12/05/89	Gardano et al.	<i>2</i>	<i>2</i>				
	AB									
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	AH									
FOREIGN PATENT DOCUMENTS										
		Document Number	Date	Country	Class	Subclass	Translation			
<i>SP</i>	AI	WO 99/51555	10/14/99	PCT			Yes	No		
	AJ	WO 02/40102	5/23/02	PCT						
	AK	WO 02/078788	10/10/02	PCT						
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